

IN THE CLAIMS

Please amend the claims as follows:

Claim 1 (Amended) A stainproofing agent comprising:

(A) a fluoroalkyl group-containing copolymer comprising

(I) a structure unit derived from a monomer having a fluoroalkyl group,

(II) a structure unit derived from a [monomer containing no fluorine] vinyl monomer containing no fluorine which is selected from the group consisting of ethylene, vinyl acetate, vinylidene halide, acrylonitrile, styrene, alkyl (meth)acrylate, polyethylene glycol (meth)acrylate, polypropylene glycol (meth)acrylate, methoxypolyethylene glycol (meth)acrylate, methoxypolypropylene glycol (meth)acrylate, vinyl alkyl ether and isoprene,

(III) a structure unit derived from vinyl chloride, and

(IV) a structure unit derived from a crosslinking monomer;

(B) a urethane compound having a fluoroalkyl group, or a copolymer having

(V) a structure unit derived from a monomer having a fluoroalkyl group and a carbon-carbon double bond, and

(VI) a structure unit derived from a monomer which contains no fluorine atom and has at least one urethane or urea linkage and one carbon-carbon double bond; and

(C) an acrylic copolymer containing no fluorine.

Claim 2 (Amended) The stainproofing agent according to claim 1, wherein the monomer used to derive [constituting] the structure unit (I) is represented by the general formula:



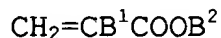
wherein Rf is a linear or branched fluoroalkyl group having 3 to 20 carbon atoms;

R¹ is a linear or branched alkylene group having 1 to 20 carbon atoms, a group of -SO₂N(R³)R⁴- or a group of -CH₂CH(OR⁵)CH₂-1

wherein [(] R³ is an alkyl group having 1 to 10 carbon atoms; R⁴ is a linear or branched alkylene group having 1 to 10 carbon atoms; and R⁵ is a hydrogen atom or an acyl group having 1 to 10 carbon atoms [)]; and

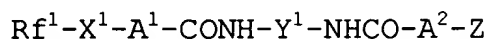
R² is a hydrogen atom or a methyl group.

Claim 3 (Amended) The stainproofing agent according to claim 1, wherein the monomer used to derive [constituting] the structure unit (II) is acrylate represented by the general formula:



wherein B¹ is a hydrogen atom or a methyl group; and B² is an alkyl group represented by C_nH_{2n+1}, wherein n=1-30 [(N=1-30)].

Claim 4 (Amended) The stainproofing agent according to claim 1, wherein the urethane compound (B) having a fluoroalkyl group is a urethane compound represented by the general formula:



wherein Rf^1 is a fluoroalkyl group having 4 to 16 carbon atoms; X^1 is $-R^1-$, $-CON(R^2)-Q^1-$ or $-SO_2N(R^2)-Q^1-$, wherein $[() R^1$ is an alkylene group; R^2 is a hydrogen atom or a lower alkyl group; and $[;] Q^1$ is an alkylene group $[])$; A^1 and A^2 are respectively $-O-$, $-S-$ or $-N(R^2)-$, wherein $[() R^2$ is a hydrogen atom or a lower alkyl group $[])$; Y^1 is a residue wherein isocyanate is removed from an aromatic or alicyclic diisocyanate; and Z is an alkyl group, an aryl group or $-X^1-Rf^1$, or a [an] urethane compound represented by the general formula:



wherein Rf^2 is a fluoroalkyl group having 4 to 16 carbon atoms and [is] X^2 is $-R^1-$, $-CON(R^2)-Q^1-$ or $-SO_2N(R^2)-Q^1-$, wherein $[() R^1$ is an alkylene group, R^2 is a hydrogen atom or a lower alkyl group; and $[;] Q^1$ is an alkylene group $[])$; A^3 is $-O-$, $-S-$ or $-N(R^3)-$, wherein $[() R^3$ is a hydrogen atom or a lower alkyl group $[])$; Y^2 is a residue wherein isocyanate is removed from an aromatic or alicyclic diisocyanate; and W is a hydrophilic group.

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Claim 5 (Amended) The stainproofing agent according to claim 1, wherein the monomer used to derive [constituting] the structure unit (VI) is a monomer obtained by reacting:

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- (a) a compound having at least two isocyanate groups,
 - (b) a compound having one carbon-carbon double bond and at least one hydroxyl or amino group, and
 - (c) a compound having one hydroxyl or amino group.
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Claim 9 (Amended) The stainproofing agent according to claim 1, wherein the copolymer (A), the urethane compound or urethane-containing the copolymer (B) and the copolymer (C) are in the form of an aqueous dispersion in a medium comprising water, using [a] nonionic and/or anionic emulsifying agents.

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Claim 11 (Amended) The stainproofing agent according to claim 1, wherein urethane-containing copolymer (B) and the copolymer (C) are in the form of an aqueous dispersion prepared by dispersing in a medium comprising [mainly composed of] water.

Claim 12 (Amended) A textile product which comprises a textile substrate [which is] treated with the stainproofing agent according to claim 1 [anyone of claim 1 to 11].

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Claim 13 (Amended) The textile product according to claim 12, wherein the textile substrate [which] is a carpet.

[Please add the following new claims:

--Claim 14 The stainproofing agent according to claim 1, wherein the alkyl group of structure unit (II) has 1 to 30 carbon atoms.--

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--Claim 15 The stainproofing agent according to claim 1, wherein the crosslinking monomer of structure unit (IV) is selected from the group consisting of diacetone acrylamide, (meth)acrylamide, N-methylol acrylamide, hydroxymethyl (meth)acrylate, hydroxyethyl (meth)acrylate, 3-chloro-2-hydroxypropyl (meth)acrylate, N,N-dimethylaminoethyl (meth)acrylate, N,N-diethylaminoethyl (meth)acrylate, butadiene, chloroprene, glycidyl (meth)acrylate, 2-methacryloyloxyethyl succinate, acrylate and methacrylate.--

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--Claim 16 The stainproofing agent according to claim 1, wherein the weight-average molecular weight of the copolymer (A) is from 2,000 to 1,000,000; and wherein the structure unit (I) is present in an amount of 50 to 80% by weight, the structure unit (II) is present in an amount of 10 to 40% by weight, the structure unit (III) is present in an amount of 5 to 50% by weight, and the structure unit (IV) is present in an amount of 0.5 to 5% by weight.--

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--Claim 17 The stainproofing agent according to claim 4, wherein the alkylene group of R^1 and Q^1 is a C_1 - C_{20} alkylene group; the lower alkyl group of R^2 and R^3 is a C_1 - C_{10} alkyl group; and the alkyl group of Z is a C_1 - C_{10} alkyl group.--

--Claim 18 The stainproofing agent according to claim 4, wherein (B) is the urethane compound having a fluoroalkyl group.--

--Claim 19 The stainproofing agent according to claim 18, wherein the alkylene group of R^1 and Q^1 is a C_1 - C_{20} alkylene group; the lower alkyl group of R^2 and R^3 is a C_1 - C_{10} alkyl group; and the alkyl group of Z is a C_1 - C_{10} alkyl group.--

--Claim 20 The stainproofing agent according to claim 1, wherein the monomer constituting the structure unit (V) is represented by the general formula:



wherein R_f is a linear or branched fluoroalkyl group having 3 to 20 carbon atoms;

R^1 is a linear or branched alkylene group having 1 to 20 carbon atoms, a group of $-SO_2N(R^3)R^4-$ or a group of $-CH_2CH(OR^5)CH_2-$, wherein R^3 is an alkyl group having 1 to 10 carbon atoms; R^4 is a linear or branched alkylene group having 1 to 10 carbon atoms; and R^5 is a hydrogen atom or an acyl group having 1 to 10 carbon atoms; and

R^2 is a hydrogen atom or a methyl group.--

--Claim 21 The stainproofing agent according to claim 5, wherein (B) is a copolymer having structure units (V) and (VI), and wherein the monomer constituting the structure unit (V) is represented by the general formula:



wherein R_f is a linear or branched fluoroalkyl group having 3 to 20 carbon atoms;

R^1 is a linear or branched alkylene group having 1 to 20 carbon atoms, a group of $-\text{SO}_2\text{N}(\text{R}^3)\text{R}^4-$ or a group of $-\text{CH}_2\text{CH}(\text{OR}^5)\text{CH}_2-$, wherein R^3 is an alkyl group having 1 to 10 carbon atoms; R^4 is a linear or branched alkylene group having 1 to 10 carbon atoms; and R^5 is a hydrogen atom or an acyl group having 1 to 10 carbon atoms; and R^2 is a hydrogen atom or a methyl group.--

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--Claim 22 The stainproofing agent according to claim 1, wherein structure units (I) and (V) are represented by the general formula:



wherein Rf is a linear or branched fluoroalkyl group having 3 to 20 carbon atoms;

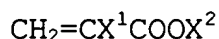
R^1 is a linear or branched alkylene group having 1 to 20 carbon atoms, a group of $-\text{SO}_2\text{N}(\text{R}^3)\text{R}^4-$ or a group of $-\text{CH}_2\text{CH}(\text{OR}^5)\text{CH}_2-$, wherein R^3 is an alkyl group having 1 to 10 carbon atoms; R^4 is a linear or branched alkylene group having 1 to 10 carbon atoms; and R^5 is a hydrogen atom or an acyl group having 1 to 10 carbon atoms; and

R^2 is a hydrogen atom or a methyl group;

the alkyl group of structure unit (II) has 1 to 30 carbon atoms;

the crosslinking monomer of structure unit (IV) is selected from the group consisting of diacetone acrylamide, (meth)acrylamide, N-methylol acrylamide, hydroxymethyl (meth)acrylate, hydroxyethyl (meth)acrylate, 3-chloro-2-hydroxypropyl (meth)acrylate, N,N-dimethylaminoethyl (meth)acrylate, N,N-diethylaminoethyl (meth)acrylate, butadiene, chloroprene, glycidyl (meth)acrylate, 2-methacryloyloxyethyl succinate, acrylate and methacrylate; and

the copolymer (C) is derived from at least two (meth)acrylic monomers containing no fluorine, and the (meth)acrylic monomer containing no fluorine is represented by the general formula:



wherein X^1 is a hydrogen atom or a methyl group; and X^2 is a linear or branched $\text{C}_n\text{H}_{2n+1}$, wherein $n=1-5$.--

--Claim 23 The stainproofing agent according to claim 10, wherein structure unit (V) is represented by the general formula



wherein Rf is a linear or branched fluoroalkyl group having 3 to 20 carbon atoms;

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 R^1 is a linear or branched alkylene group having 1 to 20 carbon atoms, a group of $-SO_2N(R^3)R^4-$ or a group of $-CH_2CH(OR^5)CH_2-$, wherein R^3 is an alkyl group having 1 to 10 carbon atoms; R^4 is a linear or branched alkylene group having 1 to 10 carbon atoms; and R^5 is a hydrogen atom or an acyl group having 1 to 10 carbon atoms; and

R^2 is a hydrogen atom or a methyl group; and

the monomer used to derive the structure unit (VI) is a monomer obtained by reacting:

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- (a) a compound having at least two isocyanate groups,
 - (b) a compound having one carbon-carbon double bond and at least one hydroxyl or amino group, and
 - (c) a compound having one hydroxyl or amino group.--

--Claim 24 The stainproofing agent according to claim 1, wherein (B) is a copolymer of structure unit (V) and (VI), the weight ratio of (V) to (VI) is 5:95 to 95:5, and the weight-average molecular weight of copolymer (B) is 500 to 1,000,000.--

--Claim 25 The stainproofing agent according to claim 24, wherein the weight ratio of (V) to (VI) is 20:80 to 95:5.--